

Appendix V. Best Management Practice (BMP) Implementation Rates for Final Scenarios

Appendix V is a spreadsheet (Appendix V - BMP Implementation Rates Assumed within WLAs and LAs_approved.xlsx) that presents the percentage of best management practices (BMPs) that are assumed to be in place in 2009 and within the TMDL WLAs and LAs for sources other than wastewater treatment plants. The 2009 implementation percentages are derived from the Chesapeake Bay Program 2009 progress run and, with the exception of annual practices (i.e., cover crops) that are reported separately each year, represent an accumulation of BMP percent implementation from 1985 through 2009. The Chesapeake Bay jurisdictions report these data annually to EPA.

Appendix V also presents the percentage of BMP implementation that is assumed within the TMDL WLAs and LAs in each jurisdiction. With the exception of BMP implementation percentages for AFO production area practices within West Virginia, which EPA increased as part of its backstop allocation for agriculture, these percentages are based upon jurisdictions final Watershed Implementation Plans (WIP) input deck submissions designed to meet their nitrogen, phosphorus and sediment reduction targets.

Appendix V does not include a table for Maryland because final allocations proposed in Maryland's WIP are derived using the method outlined in Appendix A of Maryland's WIP rather than an input deck that was run through the Chesapeake Bay Program Watershed Model.

The BMP implementation rates are derived from the relative areas where BMPs of different sectors can be applied. The comparison of the 2009 and WIP BMP percent implementation rates are provided to demonstrate the assumptions of the wasteload and load allocations in the TMDL.

The BMP percent implementation are divided into three categories:

1. Agricultural Practices

Nutrient management practices (Decision Agriculture, Enhanced Nutrient Management, and Nutrient Management) combined represents the percent area in some form of nutrient management on available crops. There is a separate percentage for nutrient management on pasture. Other pasture BMPs are combined for the total coverage on pasture and nutrient management pasture land uses. Other agriculture and animal agriculture BMP implementation percentages are compared against the calculated available acres or animals for each BMP individually.

2. Urban/Suburban Practices

Urban/Suburban stormwater management BMPs are combined for a total coverage of the total acreage. Other Urban and septic BMP implementation percentages are compared to the relative acreage or systems available for each BMP individually.

3. Resource Practices

Resource BMP implementation percentages are compared to the available land in the appropriate modeled land uses for each BMP individually.